Claims

What is Claimed is:

1.   A system for managing a plurality of client processes, comprising:

        a client task within which the client processes will be executed; and

        a manager task running at a higher priority than the client task, the manager task queuing the client processes into the client task in priority order, wherein the manager task kills the client task when a current one of the client processes is not completed within a predetermined time period.

2.   The system according to claim 1, wherein the manager task restarts the client task and queues a next one of the client processes into the client task.

3.   The system according to claim 1, wherein the manager task restarts the client task and requeues the current client process into the client task.

4.   The system according to claim 1, wherein the client task sends a response to the manager task indicating the execution of the current client process is complete.

5. The system according to claim 4, wherein the manager task, when receiving the response from the client task, queues a next one of the client processes into the client task.

6. A method for managing a plurality of client processes, comprising the steps of:

queuing a first one of the client processes into a client task, wherein the first client process is executed within the client task; and

killing execution of the client task by a manager task executing at a priority higher than that of the client task when the first client process is not completed within a predetermined time period.

7. The method according to claim 6, further comprising the step of:

releasing a first semaphore by the manager task, wherein the client task does not execute until the first semaphore is released by the manager task.

8. The method according to claim 7, further comprising the step of:

releasing a second semaphore by the client task indicating the execution of the first client process is complete.

9. The method according to claim 6, further comprising the steps of:

restarting the client task by the manager task; and

queuing a second one of the client processes into the client task.

10. The method according to claim 6, further comprising the steps of:

restarting the client task by the manager task; and

requeuing the first client process into the client task

11. A computer-readable storage medium storing a set of instructions, the set of instructions capable of being executed by a processor to manage a plurality of client processes, the set of instructions performing the steps of:

queuing a first one of the client processes into a client task, wherein the first client process is executed within the client task; and

killing execution of the client task by a manager task executing at a priority higher than that of the client task when the first client process is not completed within a predetermined time period.